BRUHAT BANGALORE MAHANAGARA PALIKE YELAHANKA ZONE

Solid Waste Management Work in Ward No 08.

Description	Sides	No	L	B	D	Qty	Unit	Rate	Amount
Earthwork excavation for foundation of buildings, water supply, sewer lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including leveling the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 **(Page no -**									
Pre - Measurement Quantity Page no 01						288.62			
Quantity to be Paid						288.62			
				Total Quantity		**288.62**	**Cum**	**246.99**	**71284.00**
Providing and injecting chemical emulsion for Pre- constructional Anti Termite Treatment, creating continuous chemical barrier under and around foundation pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration, including cost of chemical, diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS : 3.2.6 / 3.2.7 **(Page no -9, item no - 3.2)**									
Pre - Measurement Quantity Page no 02						81.96			
Quantity to be Paid						81.96			
				Total Quantity		**81.96**	**Sqm**	**134.60**	**11032.00**
Providing and Filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS **(Page no -6, item no -**									
Pre - Measurement Quantity Page no 03						28.51			
Quantity to be Paid						28.51			
				Total Quantity		**28.51**	**Cum**	**2762.58**	**78763.00**
Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 465 cum machine mixed, machine mixed concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth, including cost of all material, labour HOM Machinery curing complete as per specification, **(Page. No. 12 Item No. 4.2)**									
Pre - Measurement Quantity Page no 04						63.92			
Quantity to be Paid						63.92			
				Total Quantity		**63.92**	**Cum**	**6594.11**	**421494.00**

Assistant Executive Engineer,
R.R. Division,
KRIDL, BBMP, Bangalore

Assistant Engineer

Assistant Excecutive Engineer

Name of Work: Solid Waste Management Work in Ward No 08.

No.	Description of Item		Sides	No	L	B	D	Qty	Unit	Rate	Amount
	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **(Page. No. 23 Item No. 5.9)**										
		Pre - Measurement Quantity Page no 05						160.59			
		Quantity to be Paid						160.59			
							Total Quantity	**160.59**	**Cum**	**6540.53**	**1050331.00**
	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **(P.No.113, I.No.15.1 of PW, P&IWTD S.R 2016-17)**										
		Pre - Measurement Quantity Page no 06						220.50			
		Quantity to be Paid						220.50			
							Total Quantity	**220.50**	Sqm	**126.76**	**27950.00**
	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 **(Page No : 15, item No : 4.28)**										
		Pre - Measurement Quantity Page no 07						32.13			
		Quantity to be Paid						32.13			
							Total Quantity	**32.13**	**Sqm**	**301.87**	**9699.00**
	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **(Page No : 15, item No : 4.31)**										
		Pre - Measurement Quantity Page no 08						74.92			
		Quantity to be Paid						74.92			
							Total Quantity	**74.92**	**Sqm**	**382.89**	**28686.00**
	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and lintels, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. Specification No. KBS 4.6.2 **(Page No :15, Item No : 4.29)**										
		Pre - Measurement Quantity Page no 09						13.32			
		Quantity to be Paid						13.32			
							Total Quantity	**13.32**	**Sqm**	**718.74**	**9570.00**
	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **(Page No : 16, item No : 4.32)**										
	Column										
		Pre - Measurement Quantity Page no 10						89.97			
		Quantity to be Paid						89.97			
							Total Quantity	**89.97**	**Sqm**	**478.29**	**43032.00**

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Assistant Engineer

Assistant Excecutive Engineer

Name of Work: Solid Waste Management Work in Ward No 08. 25/09/18 to 03/10/18

Description of Item	Sides	No	L	B	D	Qty	Unit	Rate	Amount
Slum		1	51.40		2.60	133.64			
Toilet:									
Long Walls		3	2.10		2.40	15.12			
Short Walls		1	3.55		2.40	8.52			
Intermediate Walls		1	1.50		2.40	3.60			
Parapet Wall		1	10.15		0.40	4.06			
Shed									
		1	2.00		2.70	5.40			
		1	6.60		2.53	16.67			
Toilet inside the Shed		1	4.00		2.40	9.60			
Deductions									
Rolling Shutter 1		-1	2.85		2.70	-7.70			
Rolling Shutter2		-1	1.15		2.70	-3.11			
Dr		-4	0.75		2.10	-6.30			
				Total Quantity		179.51	Sqm	1085.95	194934.00
KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.**(Page No :114, item No : 15.20)**									
External Plastering									
SWM									
		1	51.40		2.60	133.64			
Toilet									
Long Walls		3	2.10		2.40	15.12			
Short Walls		1	3.55		2.40	8.52			
Intermediate Walls		1	1.50		2.40	3.60			
Parapet Wall	2	1	10.15		0.66	13.40			
Shed									
		1	2.00		2.70	5.40			
		1	6.60		2.70	17.82			
Toilet inside the Shed		1	4.00		2.40	9.60			
Deductions of Doors									
Rolling Shutter 1		-1	2.85		2.70	-7.70			
Rolling Shutter2		-1	1.15		2.70	-3.11			
Dr		-4	0.75		2.10	-6.30			
				Total Quantity		190.00	Sqm	271.81	51644.00
KSRB 15.3.2 Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications..**(Page No.113, Item No.15.10)**									
Internal Plastering									
SWM									
		1	51.40		2.60	133.64			
Toilet									
Long Walls		3	2.10		2.40	15.12			
Short Walls		1	3.55		2.40	8.52			
Intermediate Walls	2	1	1.50		2.40	7.20			
Shed									

Checked

Consultant

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Assistant Engineer

Assistant Excecutive Engineer

Name of Work: Solid Waste Management Work in Ward No 08. 25/10/18

Description of Item		Sides	No	L	B	D	Qty	Unit	Rate	Amount
(5/1000	0.005									
For 1m	1									
b)	**0.000275**									
(a+b)*7850	**6.86875**									
	Clear Span		2	12.10		6.86	166.01			
	Rafter 1		2	6.00		6.86	82.32			
	Rafter 2		2	6.00		6.86	82.32			
	King Post		2	0.50		6.86	6.86			
Webs (60mm x 40mm x 5mm)										
Calculation										
60/1000	0.06									
5/1000	0.005									
For 1m	1									
a)	**0.0003**									
35/1000	0.035									
5/1000	0.005									
For 1m	1									
b)	**0.000175**									
(a+b)*7850	**3.72875**									
	Web1		2	1.50		3.72	11.16			
	Web2		2	1.50		3.72	11.16			
	Web3		2	1.50		3.72	11.16			
	Web4		2	1.50		3.72	11.16			
	Web5		2	1.50		3.72	11.16			
	Web6		2	1.50		3.72	11.16			
Structs										
	Struct1		2	0.12		3.72	0.89			
	Struct2		2	0.12		3.72	0.89			
	Struct3		2	0.25		3.72	1.86			
	Struct4		2	0.25		3.72	1.86			
	Struct5		2	0.38		3.72	2.83			
	Struct6		2	0.38		3.72	2.83			
	For One Truss						415.63			
	For 4 truss			=415.63*4			**1662.53**			
(60mm x 40mm x 4mm) 1 Purlins			2	15.00		3.01	90.30			
	For 10 Purlins			=111.60*10			**903.00**			
Cover Plate (0.2*0.3*7850*0.12)				0.20	0.30	0.12	0.0072			
	For One Plate			0.0072 x 7850			56.52			

Assistant Engineer

Assistant Executive Engineer, R.R. Nagar, Sub-division,

Assistant Engineer

Assistant Excecutive Engineer

Name of Work: Solid Waste Management Work in Ward No 08. 26/10/18

Description of Item	Sides	No	L	B	D	Qty	Unit	Rate	Amount
12 Cover Plate			=56.52*12			**678.24**			
Bolts for One Column		6		2.47	0.75	11.11			
For 12 Column			= 13.33 x 12			**133.33**			
For Shed									
(50mm x 40mm x 4mm)	3	2	8.00		3.01	144.48			
	6	2	2.50		3.01	90.30			
						234.78			
				Total Quantity		**3611.88**			
			Quantity Limited to			**3600.00**	**Kgs**	**143.75**	**517493.0**
PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses..(**Page No : 300, item No :38.30)**										
For Roofing									
Checked. 26/10/18		1.00	17.00	13.00		**221.00**			
Shed		1.00	7.50	2.80		**21.00**			
				Total Quantity		**242.00**	**Sqm**	**1006.24**	**243509.00**
Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 50x50x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all exact lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) **(P.No.262 I.No.37.2 of PW,P&IWTD SR of 2016-17)**										
Chain Link Fancing	m								
		50	2.50			125.00			
				Total Quantity		**125.00**	**Sqm**	**1070.27**	**133784.00**
Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint **(P.No.262 of I.No.37.3 in PW,P&IWTD S.R 2016-**										
Chain Link Fancing	Sqm								
		1	161.00		2.00	322.00			
Deductions									
Side Gate		-1	3.10		2.00	-6.20			
				Total Quantity		**315.80**	**Sqm**	**861.18**	**271961.00**

Assistant Executive Engineer, R.R.Nagar, Sub-division, KRIDL, BBMP, Bangalore

Assistant Engineer

Assistant Excecutive Engineer

Name of Work: Solid Waste Management Work in Ward No 08. 26/10/18 to 28/10/18

Description of item		Sides	No	L	B	D	Qty	Unit	Rate	Amount
Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. **(P.No.262 I.No.37.4 of PW,P&IWTD SR of 2016-**										
Chain Link Fencing		m								
			3	161.00			483.00			
Deductions										
Side Gate			-3	3.10			-9.30			
						Total Quantity	473.70	Mtrs	423.40	200566.00
Door Shutters Entrance : Providing & fixing factory made Galvanized steel door Shutters 32 mm thick manufactured from pre- painted Galvanized plain steel sheet 0.60 mm thick conforming to the IS: 14246. The door shutters consist of two outer skins if steel sheets, lock seam jointed at vertical stile edges, horizontal top & bottom sides to form a double skin fully flush shell. Rigid polyurethane Foam (PUF) of density 40 Kg/M3 shall be filled in the hollow portion of door shutters for structure rigidly & sound insulation. The necessary stiffeners of the Galvanized plain steel sheet of minimum thickness 1.60 mm to be provided for fixing all hardware fixtures. **Size - 900 x 2035 x32 mm Thick** The rate is including MS Doorlock, MS Aldrop, 2nos of oxidised MS Handles, 2nos. of 300mm longTower Bolt, **(PWD South Zone, BangaloreSR 2016-17 - Item No. - 38.50.1, Page No.314)**											
For Shed			1	0.75		2.10	1.58			
For toilet			4	0.75		2.10	6.30			
						Total Quantity	7.88	Sqm	3136.32	24699.00
Door Frame - Entrance : Providing & fixing factory made Galvanized plain steel door frame of profile size 125 x 60 mm single rebate manufactured from galvanized plain steel sheet 1.25 mm thick, conforming to IS:277. The door frame consists of hinge jamb, lock jamb, head & bottom tie bars, supply in knockdown condition & to be assembled at site by mechanical means with special mitre joint. The bottom tie bar made out of galvanized plain steel sheet 1.60 mm thick pressed angle 20 x 20 mm screwed to the door frame. The stiffeners of 3 mm thick pre- punched & pre-trapped are to be welded inside the pre-punched slots of the door frames & 4 nos. of S.S. butt hinges 100 x 59 x 2.5 mm to be screwed to the door frame. The necessary stiffeners & mortar guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre- treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable lugs/ hold fasts. Alternatively, dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. size 1000 x 2130 mm. **(PWD South Zone, BangaloreSR 2016-17 - Item No. - 38.49.1, Page No.313)**											
For Shed			1	5.70			5.70			
For toilet			4	5.70			22.80			
						Total Quantity	28.50	Rmt	797.15	22719.00
Road Items										

Consultant

Assistant Executive Engineer, M.R.Nagar Sub-division, KRIDL, BBMP, Bangalore

Assistant Engineer

Assistant Executive Engineer

Name of Work: Solid Waste Management Work in Ward No 08. 20/09/18

Description of item		Sides	No	L	B	D	Qty	Unit	Rate	Amount
KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / Chapter 2 **(P.No.138, I.No.18.11 of PW, P&IWTD SR 2016-17**										
	Pre - Measurement Quantity Page no 21						3000.00			
	Quantity to be Paid						3000.00			
						Total Quantity	**3000.00**	**Sq-m**	**7.06**	**21179.00**
KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 **(P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)**										
	Pre - Measurement Quantity Page no 22						3359.83			
	Quantity to be Paid						3359.83			
						Total Quantity	**3359.83**	**Cu-m**	**169.82**	**570565.00**
KSRRB M400- Water Bound Macadam KSRRB M400-14.1. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt specific sizes to water bound macadam specifications including spreading in uniform thickness, hand packing, rolling with 3- wheeled steel/vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding materials to fill up the interstices of coarse aggregates, watering and compacting to the required density complete as per Specification. A. By mannual means. MORTH Specification No. 404 - Type A 13.2mm for grading II **(P.No.157 I.No.20.14.1)**										
	Pre - Measurement Quantity Page no 23						108.00			
	Quantity to be Paid						108.00			
						Total Quantity	**108.00**	**Cu-m**	**2083.76**	**225046.00**
KSRB 14.6-2: Providing and laying **heavy duty cobble stones 75mm thick** interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS. **(P.No.101 of I.No.14.7 in PW,P&IWTD S.R 2016-17)**										
SWM										
			1	1.90	1.85		3.52			
			1	1.90	1.85		3.52			
			1	1.80	1.85		3.33			
			1	1.90	1.85		3.52			
			1	1.90	1.85		3.52			
			1	12.30	1.85		22.76			
			1	1.85	1.85		3.42			
			1	1.85	1.85		3.42			
			1	1.85	1.85		3.42			
			1	1.85	1.85		3.42			
			1	1.85	1.85		3.42			

Checked 20/9

Consultant

Assistant Executive Engineer
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

Assistant Engineer

Assistant Excecutive Engineer

Name of Work: Solid Waste Management Work in Ward No 08. 13/10/18

Description of Item		Sides	No	L	B	D	Qty	Unit	Rate	Amount
138.50	141.50		1	3.00		0.90	2.70			
147.40	156.00		1	8.60		0.90	7.74			
166.00	174.00		1	8.00		0.90	7.20			
Cross Road of 5th Cross Road										
LHS										
0.00	16.60		1	16.60		0.90	14.94			
20.00	28.50		1	8.50		0.90	7.65			
RHS										
0.00	16.60		1	16.60		0.90	14.94			
					Total Quantity		**251.96**	**Sq-m**	**1928.00**	**485769.00**
Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete (**P.No.262 of I.No.5.30 in PW,P&IWTD S.R 2016-17)**										
Park around			1	310.00		/0.45	689.00			
8th Cross Road										
LHS										
0.00	15.00	L/S	1	15.00		/0.45	33.00			
15.00	30.00	L/S	1	15.00		/0.45	33.00			
30.00	34.50	L/S	1	4.50		/0.45	10.00			
34.50	47.00	L/S	1	12.50		/0.45	28.00			
72.00	96.00	L/S	1	24.00		/0.45	53.00			
106.00	151.00	L/S	1	45.00		/0.45	100.00			
173.00	186.00	L/S	1	13.00		/0.45	29.00			
RHS										
0.00	8.65	R/S	1	8.65		/0.45	19.00			
8.50	15.00	R/S	1	6.50		/0.45	14.00			
46.00	66.00	R/S	1	20.00		/0.45	44.00			
83.00	129.00	R/S	1	46.00		/0.45	102.00			
147.40	156.00	R/S	1	8.60		/0.45	19.00			
166.00	174.00	R/S	1	8.00		/0.45	18.00			
Cross Road of 5th Cross Road										
LHS										
0.00	16.60	L/S	1	16.60		/0.45	37.00			
20.00	28.50	L/S	1	8.50		/0.45	19.00			
RHS										
0.00	16.60	R/S	1	16.60		/0.45	37.00			
	Checked.				**Total Quantity**		**1,284.00**	**Nos**	**368.28**	**472866.00**
KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 122 / Item No. Item No. 15.80, PWD SR 2016-17**										
Park around			1	310.00		0.55	170.50			
8th Cross Road										

Consultant

Assistant Executive Engineer, R.R. Nagar, Sub-division,

Assistant Engineer

Assistant Executive Engineer